

## DUAL PURPOSE BRIDGE FOR WIRELESS COMMUNICATIONS

## ABSTRACT OF THE DISCLOSURE

A dual-purpose bridge for wireless communication allows both a low frequency (e.g., below 1 GHz) wireless communication standard and a high frequency (e.g., above 1

5 GHz) wireless communication standard to operate for a particular wireless

A communications device. Resources existing between the two bridged standards <sup>can be</sup> ~~are~~

shared to reduce the cost of implementing any one communication standard. The output

A signal of each communication system is coupled with a <sup>processor</sup> ~~microcontroller unit (MCU)~~. The

wireless communication standard that was used to transmit the output signal is

10 determined and then the corresponding protocol is employed. Processing is performed in

A <sup>processor</sup> ~~the MCU~~ and the resulting data can then be applied to a data port.